BACHELOR OF PHYSIOTHERAPY First Year SUPPLEMENTARY: YVINTER- 2022 SUBJECT: HUMAN PHYSIOLOGY

Day: Tuesday

Time: 02:00 PM-05:00 PM

Date: 27-12-2022

W-25045-2022

Max. Marks: 80

NR

- 1) All questions are **COMPULSORY**.
- 2) Section A and Section B should be written on **SEPARATE** answer sheets.
- 3) Draw neat and clean diagrams **WHEREVER** necessary.
- 4) Figures to the right indicate FULL marks.

Section A

Q.1 Long Answer Questions (Attempt Any Two):

 $(2 \times 10 = 20)$

- a) Define cardiac output. Describe various factors determining cardiac output. Add a note on ejection fraction. (1+7+2)
- **b)** Describe in details chemical regulation of respiration. Add a note on hypoxia. (7+3)
- c) Describe origin and spread of cardiac impulse. Draw a well labelled diagram of normal electrocardiogram in lead II. (7+3)

Q.2 Short Essay Questions (Attempt Any Four):

 $(4 \times 5 = 20)$

- a) Respiratory changes during moderate exercise.
- **b)** Deglutition reflex.
- c) Ovarian changes in menstrual cycle.
- d) Physiological actions of growth hormone.
- e) Peculiarities of pulmonary circulation.

Section B

Q.3 Long Answer Questions (attempt Any Two):

 $(2 \times 10 = 20)$

- a) Enlist various ascending tracts. Describe origin, course and termination of dorsal column tracts. What are the effects of damage to dorsal column tracts? (2+6+2)
- **b)** Describe the events occurring during transmission of impulse across neuromuscular junction in a skeletal muscle. Add a note on myasthenia gravis. (7+3)
- c) Enlist various functions of hypothalamus. Describe any four functions in detail. (4+6)

Q.4 Short Essay Questions (Attempt Any Four):

 $(4 \times 5 = 20)$

- a) Functions of basal ganglia.
- **b)** Micturition reflex.
- c) Action potential in a large myelinated nerve fiber
- d) Types of deafness
- e) Functions of platelets

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